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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/588,089	05/25/2007	Yasuaki Fujita	Q96241	4020
23373 SUGHRUE MI	7590 05/14/201 ON, PLLC	EXAMINER		
2100 PENNSYLVANIA AVENUE, N.W.			STORMER, RUSSELL D	
SUITE 800 WASHINGTO	N, DC 20037		ART UNIT	PAPER NUMBER
			3617	
			NOTIFICATION DATE	DELIVERY MODE
			05/14/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)				
Office Action Commons	10/588,089	FUJITA, YASUAKI	FUJITA, YASUAKI			
Office Action Summary	Examiner	Art Unit				
	Russell D. Stormer	3617				
The MAILING DATE of this commun Period for Reply	ication appears on the cover sheet	with the correspondence ad	dress			
A SHORTENED STATUTORY PERIOD F WHICHEVER IS LONGER, FROM THE N - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this comm - If NO period for reply is specified above, the maximum si - Failure to reply within the set or extended period for reply Any reply received by the Office later than three months earned patent term adjustment. See 37 CFR 1.704(b).	MAILING DATE OF THIS COMMUN s of 37 CFR 1.136(a). In no event, however, may munication. tatutory period will apply and will expire SIX (6) Mo y will, by statute, cause the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this co ABANDONED (35 U.S.C. § 133).	•			
Status						
1) Responsive to communication(s) file	ed on <i>2/1/10</i> .					
· <u> </u>	2b)⊠ This action is non-final.					
3)☐ Since this application is in condition	<i>,</i> —	atters, prosecution as to the	merits is			
•	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 4) Claim(s) 1-5,7-9 and 11 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 7 and 11 is/are allowed. 6) Claim(s) 1-5, 8, and 9 is/are rejected. 						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restri	ction and/or election requirement.					
Application Papers						
9)☐ The specification is objected to by th	e Examiner.					
10) The drawing(s) filed on is/are	: a) accepted or b) objected t	o by the Examiner.				
Applicant may not request that any obje	ction to the drawing(s) be held in abey	ance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (€ 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	PTO-948) Paper N	w Summary (PTO-413) lo(s)/Mail Date of Informal Patent Application				

Response to Amendment

The indicated allowability of claims 1-5, 8, and 9 is withdrawn in view of the newly discovered Published Utility Application JP 03-19785. Rejections based on the newly cited reference follow.

Claim Objections

Claims 3 and 5 are objected to because they recite a stepped portion or stepped portions. Claim 1 recites upper and lower stage surfaces. Claims 3 and 5 are unclear as to where the stepped portion(s) would be located on the inner periphery of the rubber crawler, or how they would relate to the upper and lower stage surfaces of claim 1.

It is suggested that the claims be amended to recite the stepped portion(s) as being formed by or disposed between the upper and lower stage surfaces.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 4 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claim is indefinite because it is not clear if the upper stage surfaces and the lower stage surfaces are the same as those set forth in claim 1, or if these are additional upper and lower stage surfaces.

It is suggested that the claim be amended to recite "said upper stage surface" and "said lower stage surface" to overcome the rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-6, 8, and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Komatsu '955 in view of JP 03-19785.

Komatsu '955 (JP 2002-127955; previously cited by Applicant) discloses a coreless rubber crawler track assembly having a plurality of longitudinal cord rows 5; rubber projections 3 on the inner surface of the track; rubber lugs 4 on outer surface of the track; and a roller 10 which straddles the projections 3 and contacts the inner surface of the track. The roller 10 may be provided with areas of reduced diameter 15, 15a, 15b as shown in figures 1-3 which reduce the contact area of the outer peripheral surface of the roller where the roller contacts the track. The endless crawler track does not include stepped portions or upper and lower stage surfaces.

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Japanese Published Utility Model Application 03-19785 (newly cited; hereafter JP 03-19785) teaches an endless crawler track assembly having projections 5 on its inner surface and a roller 6 which straddles the projections. The endless track further includes raised portions on its inner surface on either side of the projections. The raised portions (unlabelled, but clearly visible in figures 2, 3, 4, and 6) form an upper stage surface on which a reduced contact (6a in figure 4) of the roller rests. A portion 17 of the roller overlies a lower stage surface of the track, and a step is disposed between the upper and lower stage surfaces. As shown in figure 4 approximately 50% of the outer periphery of the roller contacts the inner surface of the track.

From this teaching it would have been obvious to modify the endless track of Komatsu '955 to have a stepped portion separating the inner surface of the track into an upper stage surface and a lower stage surface such that the roller had a reduced contact area with the inner surface of the track, and the roller had a portion which would overlie the lower stage surface. This would perform the same function as in the Komatsu track, and would reduce wear and heat generation in the track due to the reduced contact area. The lower stage surface would also make the outer sides of the track more flexible and thus better able to absorb deflection from rocks or tore obstacles.

Allowable Subject Matter

Claims 7 and 11 are allowable over the art of record.

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Response to Arguments

Applicant's arguments with respect to claims 7 and 11 have been fully considered and are persuasive inasmuch as claim 11 has been amended to overcome the rejections under 35 U.S.C. 112 and 103 set forth in the previous office action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Russell D. Stormer whose telephone number is (571) 272-6687. The examiner can normally be reached on Monday through Friday, 9 AM to 4 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Morano can be reached on (571) 272-6684. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Russell D. Stormer/ Primary Examiner, Art Unit 3617